

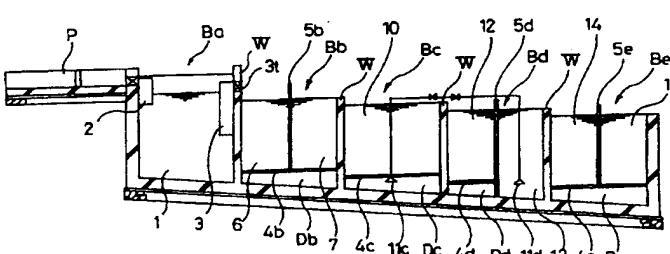
PCT

世界知的所有権機関

国際事務局



特許協力条約に基づいて公開された国際出願

(51) 国際特許分類 5 C02F 3/10, 3/06	A1	(11) 国際公開番号 WO 94/29224 (43) 国際公開日 1994年12月22日 (22.12.94)
(21) 国際出願番号 PCT/JP94/00879 (22) 国際出願日 1994年5月31日 (31.05.94) (30) 優先権データ 特願平5/168349 1993年6月16日 (16.06.93) JP 特願平5/242115 1993年9月3日 (03.09.93) JP 特願平6/46048 1994年3月18日 (16.03.94) JP (71) 出願人 (米国を除くすべての指定国について) 東洋電化工業株式会社 (TOYO DENKA KOGYO CO., LTD) [JP/JP] 〒780 高知県高知市秋町2丁目2番25号 Kochi, (JP) (72) 発明者; および (75) 発明者/出願人 (米国についてのみ) 山本晋平 (YAMAMOTO, Shinpei) [JP/JP] 〒780 高知県高知市玉水町59番地 Kochi, (JP) 高木和広 (TAKAGI, Kazuhiro) [JP/JP] 〒780 高知県高知市鴨部1513-1 鏡川コーポ2716 Kochi, (JP) 清谷悦民 (KIYOTANI, Etutami) [JP/JP] 〒781-02 高知県高知市瀬戸西町2丁目305 Kochi, (JP) 鏡元岩根 (KAGIMOTO, Iwane) [JP/JP] 〒780 高知県高知市永国寺町1丁目27 Kochi, (JP) 海谷信一 (KARIYA, Shinichi) [JP/JP] 〒783 高知県南国市前浜2358 Kochi, (JP) 松本 聡 (MATUMOTO, Satoshi) [JP/JP] 〒116 東京都荒川区東尾久2丁目29番9号 Tokyo, (JP)		(74) 代理人 弁理士 高月 猛 (TAKATSUKI, Takeshi) 〒105 東京都港区虎ノ門2丁目7番9号 第1岡名ビル 高月国際特許事務所 Tokyo, (JP) (81) 指定国 BR, CA, US, 欧州特許 (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). 添付公開書類 国際調査報告書
(54) Title : WATER TREATMENT METHOD AND WATER TREATMENT APPARATUS		
(54) 発明の名称 水処理方法及び水処理装置 		
(57) Abstract This invention aims at providing water treatment techniques capable of carrying out a high-performance water purifying treatment by efficiently removing a synthetic organic compound, such as a surface active agent for a detergent and components of agricultural chemicals from contaminated water having a comparatively low load of, for example, BOD. To achieve this object, a utilizable filter medium formed by depositing a substrate having a specific utilizability by the target microorganisms on a porous base material, such as charcoal, is used as the filter medium, with which contaminated water to be treated is brought into contact under aerobic conditions. Using the utilizable filter medium in this manner enables specified microorganisms having a high efficiency of removing synthetic organic contaminants to be selectively utilized, and synthetic organic compounds to be efficiently removed.		



[Log In](#) [Order Form](#) [Work Files](#) [View Cart](#)

[Browse Codes](#) [IP Listings](#) [Prior Art](#) [Derwent](#) [Advanced](#) [Boolean](#)

The Delphion
Integrated
View

Purchase Document:

[PDF \(~2280 KB\)](#) | [More choices...](#)

Other Views:

[Expand Details](#) | [INPADOC](#) | [Derwent...](#)

Title: **WO9429224A1: WATER TREATMENT METHOD AND WATER TREAT APPARATUS**

► [Want to see a more descriptive title highlighting what's new about this invention?](#)

Country: **WO** World Intellectual Property Organization (WIPO)

Kind: **A1** Publ. of the Int. Appl. with Int. search report

Inventor(s): **YAMAMOTO, Shinpei**
TAKAGI, Kazuhiro
KIYOTANI, Etutami
KAGIMOTO, Iwane
KARIYA, Shinichi
MATUMOTO, Satoshi

Applicant/Assignee:



TOYO DENKA KOGYO CO., LTD.

YAMAMOTO, Shinpei
TAKAGI, Kazuhiro
KIYOTANI, Etutami
KAGIMOTO, Iwane
KARIYA, Shinichi
MATUMOTO, Satoshi

[News, Profiles, Stocks and More about this company](#)

Issued/Filed Dates: **Dec. 22, 1994 / May 31, 1994**

Application Number: **WO1994JP0000879**

IPC Class: **C02F 3/10; C02F 3/06;**

► [Interested in classification by use rather than just by description?](#)

ECLA Code: **C02F3/06;**

Priority Number(s): **June 16, 1993 JP1993005168349**
Sept. 3, 1993 JP1993005242115
March 16, 1994 JP1994000646048

INPADOC Legal [Show legal status actions](#)

Status:

Designated **AT BE BR CA CH DE DK ES FR GB GR IE IT LU MC NL PT SE US**

Countries:

Abstract:

This invention aims at providing water treatment techniques capable of carrying out a high-performance water purifying treatment by efficiently removing a synthetic organic compound, such as a surface active agent for a detergent and components of agricultural chemicals from contaminated water having a comparatively low load of, for example, BOD. To achieve this object, a utilizable filter medium formed by depositing a substrate having a specific utilizability by the target microorganisms on a porous base material, such as charcoal, is used as the filter medium, with which



contaminated water to be treated is brought into contact under aerobic conditions. Using the utilizable filter medium in this manner enables specified microorganisms having a high efficiency of removing synthetic organic contaminants to be selectively utilized, and synthetic organic compounds to be efficiently removed.
[Show in French]

► **See a clear and precise summary of the whole patent, in understandable terms.**

Family: [Show known family members](#)

Other Abstract Info: DERABS C95-036315 DERC95-036315

Foreign References: No patents reference this one



**Nominate this
for the Gallery...**

[Subscribe](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [FAQ](#) | [Site Map](#) | [Help](#) | [Contact Us](#)

© 1997 - 2002 Delphion Inc.